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THE

DENTAL SCHOOL

1899–1900

ANNUAL ANNOUNCEMENT

OF THE

DENTAL SCHOOL

OF

HARVARD UNIVERSITY

1899-1900

CAMBRIDGE

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1899

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1899.

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DENTAL SCHOOL CALENDAR.

1899.

Sept. 21, Thursday.	Undergraduate examinations begin.
Sept. 25, Monday.	Examinations for admission.
Sept. 28, Thursday.	**Academic Year begins.** Registration of Students.
Nov. 1, Wednesday.	Last day for receiving dissertations for the Bowdoin Prizes.
Nov. 30, Thursday.	Thanksgiving Day: a holiday.

Recess from Dec. 23, 1899, to Jan. 2, 1900, inclusive.

1900.

Jan. 1, Monday.	Last day for receiving dissertations for the Boylston Medical Prizes.
Feb. 1, Thursday.	**Second half-year begins.**
Feb. 22, Thursday.	Washington's Birthday: a holiday.

Recess from April 15 to April 21, inclusive.

April 30, Monday.	Last day for receiving applications from students in the Professional Schools to be qualified for the degree of A.M. in 1900.
May 1, Tuesday.	Last day for receiving dissertations for the Dante, Toppan, and Sumner Prizes.
May 30, Wednesday.	Memorial Day: a holiday.
June 1, Friday.	Undergraduate examinations begin.
June 26, Tuesday.	Examinations for admission.
June 27, Wednesday.	**Commencement.**

SUMMER VACATION OF THIRTEEN WEEKS, FROM COMMENCEMENT DAY TO SEPTEMBER 26, INCLUSIVE.

Sept. 20, Thursday.	Undergraduate examinations begin.
Sept. 24, Monday.	Examinations for admission.
Sept. 27, Thursday.	**Academic Year begins.**
Nov. 1, Thursday.	Last day for receiving dissertations for the Bowdoin Prizes.

ADMINISTRATIVE OFFICERS.

THE UNIVERSITY.

President: CHARLES WILLIAM ELIOT, LL.D.
Office, 5 University Hall, Cambridge.

Treasurer: CHARLES FRANCIS ADAMS, 2d, A.B., LL.B.

Comptroller: ALLEN DANFORTH, A.M.

The office of the Corporation (and of the Treasurer and the Comptroller) is at 50 State Street, Boston. Office hours, 10 A.M. to 2 P.M., Saturday 10 A.M. to 12 M.

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Office, Dane Hall, Cambridge. Office hours, 9 A.M. to 1 P.M.

Librarian: WILLIAM COOLIDGE LANE, A.B.
Office, Gore Hall, Cambridge.

Director of Hemenway Gymnasium: DUDLEY ALLEN SARGENT, M.D., S.D.
Office, Hemenway Gymnasium, Cambridge.

Regent: GEORGE ALONZO BARTLETT, A.M.
Office, 5 University Hall, Cambridge.

Corresponding Secretary: RICHARD COBB, A.B.
Office, 5 University Hall, Cambridge. Office hours, daily, 9 A.M. to 10 A.M.

Publication Agent: JOHN BERTRAM WILLIAMS, A.B.
Office, 2 University Hall, Cambridge. Office hours, 9 A.M. to 5 P.M., Saturday 9 A.M. to 12.30 P.M.

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The Offices of this Faculty and of the Departments under its charge at Nos. 4, 5, 10, and 16, University Hall, Cambridge, are open on weekdays, except Saturdays from 9 A.M. *to* 1 P.M., *and on Saturdays from* 9 A.M. *to* 12 M. *Nos. 5, 10, and 16 are also ordinarily open on weekdays except Saturdays, from* 2 *to* 4 P.M.

Dean of the Faculty of Arts and Sciences: CLEMENT LAWRENCE SMITH, A.M., LL.D.
Office, 5 University Hall.

Dean of the Graduate School: JOHN HENRY WRIGHT, A.M.
Office, 10 University Hall. Office hours, Monday, Thursday, 3.30 P.M. to 4.30 P.M.

Dean of Harvard College: LE BARON RUSSELL BRIGGS, A.M.
Office, 4 University Hall. Office hours, Monday, Tuesday, Friday, 10 A.M. to 12.30 P.M.

Dean of the Lawrence Scientific School: NATHANIEL SOUTHGATE SHALER, S.D.
Office, 16 University Hall. Office hours, Wednesday, Friday, 9 A.M., usually, also Monday, Tuesday, Thursday, and Saturday, at 9 A.M.

Recording Secretary and Secretary of Appointment Committee: BYRON SATTERLEE HURLBUT, A.M.
Office, 5 University Hall. Office hours, daily, 9 A.M. to 10 A.M. Monday, Tuesday, Friday, Saturday, 9 A.M. to 12 M.

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Office, 5 University Hall. Office hour, Monday, Wednesday, Friday, 3.30 P.M.

Chairman of the Committee on Admission from other Colleges: HANS CARL GÜNTHER VON JAGEMANN, PH.D.
Office, 10 University Hall. Office hours, Tuesday, Saturday, 10 A.M.

Recorder of the Faculty of Arts and Sciences: GEORGE WASHINGTON CRAM, A.B.
Office, 4 University Hall. Office hours, 9 A.M. to 1 P.M. Saturday 9 A.M. to 12 M.

Secretary of the Lawrence Scientific School and Clerk of the Summer School: MONTAGUE CHAMBERLAIN.
Office, 16 University Hall. Office hours, daily, 9 A.M. to 1 P.M.

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The Chemical Laboratory is in Boylston Hall.

Director of the Jefferson Physical Laboratory: JOHN TROWBRIDGE, S.D.
The Jefferson Physical Laboratory is on Holmes Field.

Director of the Psychological Laboratory: HUGO MÜNSTERBERG, PH.D., M.D.
The Psychological Laboratory is in Dane Hall.

In charge of the Museum of Comparative Zoölogy: WILLIAM MCMICHAEL WOODWORTH, PH.D.

In charge of the Botanical Museum: GEORGE LINCOLN GOODALE, M.D., LL.D.

The Botanical Laboratories are in the same building.

Curator of the Mineralogical Museum: JOHN ELIOT WOLFF, PH.D.

Curator of the Peabody Museum of Archaeology and Ethnology: FREDERIC WARD PUTNAM, A.M., S.D.

Curator of the Semitic Museum: DAVID GORDON LYON, PH.D.

The above Museums are between Oxford Street and Divinity Avenue.

Director of the William Hayes Fogg Museum of Art and Curator of the Gray Collection of Engravings: CHARLES HERBERT MOORE, A.M.

The Fogg Museum of Art is on Cambridge Street.

Director of the Botanic Garden: GEORGE LINCOLN GOODALE, M.D., LL.D.

Curator of the Gray Herbarium: BENJAMIN LINCOLN ROBINSON, PH.D.

The Herbarium and Botanic Garden are at the corner of Garden and Linnaean Streets.

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Office, Austin Hall, Cambridge.

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Office, Austin Hall, Cambridge.

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Office, Harvard Medical School, corner of Boylston and Exeter Streets, Boston. Office hours, Tuesday, Friday, 12.15 P.M. to 1 P.M.

Secretary of the Faculty of Medicine: CHARLES MONTRAVILLE GREEN, M.D.

Office, Harvard Medical School, corner of Boylston and Exeter Streets, Boston. Office hours, Monday, Thursday, 12 M. to 1 P.M.

Dean of the Faculty of Dental Medicine: EUGENE HANES SMITH, D.M.D.
The Dental School is on North Grove Street, Boston. The office of the Dean is at 283 Dartmouth Street, Boston. Office hours, 9 A.M. to 4 P.M.

Curator of the Dental Museum: WALDO ELIAS BOARDMAN, D.M.D.
Office, 184 Boylston Street, Boston.

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Office, 52 Village Street, Boston. Office hours, 10 A.M. to 12 M. Daily.

Surgeon in charge of Veterinary Hospital: FREDERICK HUNTINGTON OSGOOD, M.R.C.V.S.
The Hospital is at 50 Village Street, Boston. Office hour, 12 M. Daily.

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Superintendent of the Bussey Farm: EDMUND HERSEY.
The post-office address of the Farm Superintendent is Roslindale.

Director of the Arnold Arboretum: CHARLES SPRAGUE SARGENT, A.B.
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Director of the Astronomical Observatory: EDWARD CHARLES PICKERING, LL.D.
The Observatory is at the corner of Garden and Bond Streets, Cambridge.

THE DENTAL SCHOOL,

BOSTON.

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OTHER INSTRUCTORS.

EZRA F. TAFT, D.M.D., *Instructor in Operative Dentistry.*

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THOMAS B. HAYDEN, D.M.D., *Instructor in Mechanical Dentistry.*

DWIGHT WARD DICKINSON, D.M.D., *Instructor in Operative Dentistry.*

FREDERICK EVERETT MEADER, D.M.D., *Instructor in Mechanical Dentistry.*

ASHER H. StC. CHASE, D.M.D., *Assistant Demonstrator of Mechanical Dentistry.*

HAROLD DeWITT CROSS, D.M.D., *Instructor in Mechanical Dentistry.*

EDWIN L. FARRINGTON, D.M.D., *Assistant Demonstrator of Operative Dentistry.*

HARRY W. HALEY, D.M.D., *Instructor in Mechanical Dentistry.*

ROBERT J. McMEEKIN, D.M.D., *Demonstrator of Operative Dentistry.*

WALTER H. WHITE, D.M.D., *Instructor in Operative Dentistry.*

JOHN DANA DICKINSON, D.M.D., *Clinical Instructor in Mechanical Dentistry.*

GEORGE LINCOLN FORREST, D.M.D., *Instructor in Mechanical Dentistry.*

FRANCIS H. HARDING, D.M.D., *Instructor in Operative Dentistry.*

HENRY CARLETON SMITH, A.B., *Assistant in Chemistry.*

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Courses of Study — Drs. Briggs, Brackett, Stanton.

Museum — Drs. Fillebrown, Stanton, Cooke.

THE DENTAL SCHOOL.

STUDENTS.

Third Year.

NAME.	RESIDENCE.	PRESENT ADDRESS.*
Albertson, Frank,	*Worcester*,	156 Warren Ave.
Baldwin, George Chandler,	*San Francisco Cal.*	356A Harvard St., [Cambridge.
Barney, Roland Safford,	*Southboro*,	Southboro.
Bartlett, George Oliver,	*Worcester*,	663 Tremont St.
Brown, Daniel Crawford,	*Ruthville, Va.*	133 Dartmouth St.
Burns, Thomas Morgan,	*Boston*,	25 Rutland Sq.
Burton, Harry Sanford,	*Oxford, Eng.*	9 Newbury St.
Carrier, Stephen Frederick,	*Roxbury*,	87 Blue Hill Ave., Roxbury.
Davis, Horace Amos,	*Dorchester*,	407 Seaver St., Dorchester.
Day, Frederick Wilbur,	*Gardiner, Me.*	2322 Mass. Ave., Cambridge.
Esgate, John Irving,	*Cambridge*,	18 Leonard Ave., Cambridge.
Estabrook, John Wesley,	*Wollaston*,	Wollaston.
Fuller, Louis Dinsmore Holman,	*Saxonville*,	618 Tremont St.
Glazier, Clarence Marshall,	*Roxbury*,	16 Copeland St., Roxbury.
Hersey, George Murray,	*Hingham*,	South St., Hingham.
Hurley, Dennis Joseph,	*Dedham*,	Dedham.
Jameson, Charles Allen,	*Wollaston*,	13 Warren Ave., Wollaston.
Kent, Edwin Newell,	*Charlestown*,	79 High St., Charlestown.
Lecomte, Joseph,	*Brussels*,	23 Mt. Pleasant Ave., Roxbury.
Mackintosh, Albert Ira,	*Hyde Park*,	12 Williams Ave., Hyde Park.
McPherson, Charles Winthrop,	*Medford*,	Grand View Ave., Medford.
Martin, Dwight Clifford,	*Boston*,	162 W. Brookline St.
Marvel, William Wilkinson, Jr.	*Newport, R.I.*	82 Huntington Ave.
Naylor, Leslie Herbert,	*Dorchester*,	92 Auckland St., Dorchester.
Parshley, Burt Wilbur,	*Dorchester*,	17 Cushing Ave., Dorchester.
Payne, Ralph Wheelwright,	*Greenfield*,	92 Bowdoin St.
Randall, Samuel Lumn Doherty,	*Dorchester*,	102 Elmo St., Dorchester.
Rochette, Joseph Eugene,	*Worcester*,	12 Bow St., Cambridge.
Rodgers, Charles William,	*Troy, N. Y.*	109 Otis St., Cambridge.
Rogers, Arthur Verne,	*Brewer, Me.*	663 Tremont St.
Ryan, John William,	*Cambridge*,	64 Plympton St., Cambridge.

* Addresses are in Boston, unless stated to be elsewhere.

Simmons, Henry Heims,	*Chelsea*,	833 Broadway, Chelsea.
Snow, Frank Winthrop,	*Providence, R.I.*	10 Rutland Sq.
Trueman, Nelson Gore,	*Boston*,	45 Westland Ave.
Watts, John Augustine,	*Coaticook, P.Q.*	372 Dorchester St., So. Boston.
Wilson, Bryce Aughterson,	*Pawtucket, R. I.*	274 Cottage St., Pawtucket, R.I.

SECOND YEAR.

Andrews, Fenimore Shute,	*Fitchburg*,	81 Warren Ave.
Bliss, James Francis,	*Brockton*,	17 Yarmouth St.
Boutwell, Leslie Barnes,	*Cambridge*,	169 Upland Road, Cambridge.
Breslin, James Edward, Jr.	*Cambridge*,	7 Willard St., Cambridge.
Brown, Fred Phillips,	*Haverhill*,	37 Merrimac St., Haverhill.
Buckley, Patrick Henry,	*Natick*,	3 Walcott St., Natick.
Cassidy, Frederick Matthew,	*Fitchburg*,	9 Rutland Sq.
Cobb, Henry Willis,	*Mansfield*,	Mansfield.
Cushing, Harry Howard,	*Boston*,	529 Mass. Ave.
Cutler, James Willoughby,	*Providence, R.I.*	147 Smith St., Providence, R. I.
Davis, Walter Alonzo,	*Greenfield*,	280 Boylston St.
Dickinson, John Walker,	*Watertown*,	9 Winter St., Watertown.
Donovan, John Patrick,	*Norwood*,	41 Monroe St., Norwood.
Dort, Wilson Case,	*Providence, R.I.*	1 Aspinwall Ave., Brookline.
Eckert, John Edward,	*Cambridge*,	1201 Mass. Ave., Cambridge.
Elliott, Samuel Tuttle,	*Hyde Park*,	947 Hyde Park Ave, Hyde Park.
Fanning, Ellis Vinal,	*Brockton*,	1201 So. Main St., Brockton.
Freeman, Melvin Walter,	*Braintree*,	6 Hancock St.
Freeman, Richard Morris,	*Boston*,	Harv. Dent. School.
Gallahue, John Joseph,	*So. Boston*,	239 Third St., So. Boston.
Gould, Rufus Henry,	*Worcester*,	W. H. 21, Cambridge.
Hackley, Clayton Niles,	*Boston*,	561 Boylston St.
Hall, Frederick George,	*Southbridge*,	6 Highland Ave., Somerville.
Hall, Frederick Parkinson,	*Middletown, Conn.*	104 Chandler St.
Hammond, Thomas Frederick,	*Natick*,	441 No. Main St., Natick.
Hicks, Fred Burpee,	*Dorchester, N.B.*	390 Cambridge St., E. Cambridge.
Joslin, Charles Levi,	*Somerville*,	442 Broadway, Somerville.
Long, Ryerson Putnam,	*Boston*,	2 Park Sq., Room 55.
Loring, Burton Elmer,	*Worcester*,	4 Harrington Ave., Worcester.
Luther, Henry Harold,	*Jamestown, R.I.*	9 Concord Sq.
McCarthy, Stephen Dennis,	*So. Boston*,	728 Fifth St., So. Boston.
Midgley, Albert Leonard,	*Worcester*,	663 Tremont St.

Miner, Walter Curtis,	*Chicopee*,	663 Tremont St.
Pike, Charles Gilman,	*Dorchester*,	16 Virginia St., Dorchester.
Reinstein, Irving Oscar,	*Boston*,	168 Humboldt Ave., Roxbury.
Reoch, Norman Greene,	*Phenix, R.I.*	4 St. Botolph St.
Rogers, Joseph Moulton,	*Roxbury*,	21 Linwood St., Roxbury.
Rogers, Melville Forrest,	*Charlestown*,	26 Green St., Charlestown.
Shinn, Paul Haywood,	*Cambridge*,	371 Broadway, Cambridge.
Smith, Harry Judson,	*Cottage City*,	6 Highland Ave., Somerville.
Smith, Joseph Warren, Jr.	*Andover*,	8 St. Botolph St.
Tousey, Coleman,	*Tufts College*,	Tufts College.
Washburn, David Leland,	*Natick*,	Walnut Hill.
Watson, Allen LaForest,	*Lynn*,	19 Eastlake Ave., Lynn.
White, Emery William,	*Park City, Utah*,	81 Warren Ave.
Whitehill, Robert,	*No. Attleboro*,	6 Blackwood St.
Whitmore, Chester Lambert,	*Detroit, Mich.*	156 Newbury St.
Woodbridge, Howard Frederick George,	*Fredericton, N.B.*	592 Tremont St.
Yarrington, Herbert Harlan,	*Rutland, Vt.*	259 Norfolk St., Cambridge.

FIRST YEAR.

Ayers, Arthur Dean Hosea,	*New Dorchester*,	41 Rosseter St., New Dorchester.
Belisle, Narcisse Alexandre,	*Worcester*,	9 DeWolfe St., Cambridge.
Billson, Arthur Thomas,	*Duluth, Minn.*	Westminster Chambers.
Bradford, Walter Adams,	*Saco, Me.*	32 W. Cedar St.
Brown, Fred Louis Standish,	*Westboro*,	Cambridge.
Bruce, Adelbert Melvin,	*Natick*,	86 Pond St., Natick.
Burpee, George Weston,	*Medford*,	53 Otis St., Medford.
Clapp, Howard,	*Boston*,	130 Commonwealth, Ave.
Comstock, Austin Mark,	*W. Medford*,	73 Wyman St., W. Medford.
Cooper, Burton Henry,	*E. Boston.*	196 Trenton St., E. Boston.
Daly, Charles Henry,	*Beachmont*,	41 Crest Ave., Beachmont.
Davis, William Frederic, Jr.	*Woburn*,	11 Arlington Road, Woburn.
Day, Albert William,	*Worcester*,	14 Dale St., Worcester.
Devine, Charles Francis,	*Roxbury*,	211 Heath St., Roxbury.
Freeman, Arthur Trowbridge,	*Boston*,	100 W. Newton St.
Hale, Charles Wesley,	*Springfield*,	230 Millett St., New Dorchester.
Hanlon, Harold Clinton,	*No. Easton*,	10 William St., No. Easton.
Hull, George Irvine,	*Cambridgeport*,	903 Main St., Cambridge.
Kiley, Robert Delury,	*Salem*,	177 Federal St., Salem.
Knowlton, Clifton Eugene,	*Worcester*,	41 St. Botolph St.
Lazarus, Morris Arthur,	*Boston*,	14 Holyoke St.

Lockwood, Arthur George,	*England*,	Hotel Boulevard, Chestnut Hill.
Lowe, Erving Fiske,	*Fitchburg*,	350 Columbus Ave.
McCullagh, Frank Randall,	*Roxbury*,	9 Mayfair St., Roxbury.
McGoldrick, Edward James,	*Cambridge*,	131 Franklin St., Cambridge.
McMurray, Albert Thompson,	*Fredericton, N.B.*	286 Chestnut Ave., Jamaica Plain.
McNally, Henry Esmond,	*Quincy*,	9 Hancock Ct., Quincy.
McPeake, Patrick Henry,	*Cambridge*,	462 Cambridge St., Cambridge.
Maguire, Henry Stevens,	*Gloucester*,	56 Clarendon St.
Newell, Walter Grover,	*So. Hingham*,	E. Weymouth.
O'Brien, James Joseph,	*Somerville*,	10 Skehan St., Somerville.
Patton, Charles Henry,	*St. John, N.B.*	680 Mass. Ave.
Robinson, Rudolphus Henry,	*Charlestown*,	84 Cambridge St., Charlestown.
Rogers, Leo Augustine,	*Somerville*,	11 Gibbens St., Somerville.
Ross, Herbert Washington,	*New Haven, Conn.*	59 Museum St., Cambridge.
Scott, Walter James,	*Rutland, Vt.*	29 Bank St., W. Somerville.
Shattuck, Shirley Smith,	*Ballardvale*,	Andover St., Ballardvale.
Shuman, Henry Benjamin,	*Providence, R.I.*	8 Columbus Sq.
Speers, William John,	*Newport, R.I.*	302 Columbus Ave.
Sykora, Rudolph,	*Basel, Switzerland*,	246 Adams St., Dorchester.
Walsh, Andrew T.,	*Boston*,	44 W. Cedar St.
Warner, Charles Thomas,	*Taunton*,	Taunton.
Watkins, Henry Eugene,	*Worcester*,	14 Dale St., Worcester.
Wiswell, Foster Smith,	*Chelsea*,	104 Hawthorne St., Chelsea.
Wolfe, George Fisher,	*No. Weymouth*,	Canton.
Wright, Arthur Peter,	*Palmer*,	Harv. Dent. School.

SUMMARY.

Third Year Students	36
Second Year Students	49
First Year Students	46
Total	131

THE DENTAL SCHOOL.

The Dental School of Harvard University is established in Boston.

The academic year begins on the Thursday following the last Wednesday in September, and ends on the last Wednesday in June. There is a recess beginning December 23, and ending January 2; and a spring recess of one week beginning on the Sunday next preceding the 19th of April, or on Sunday the 19th of April when that day falls on Sunday, and ending on the following Saturday, both days inclusive.

Instruction in this School is given throughout the academic year, by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed. The course of instruction is progressive, and extends over three years, the teaching of one year not being repeated in the next.

The studies of the first year are pursued in connection with the classes in the Harvard Medical School, the student receiving instruction by the same professors at the same time and place with the medical students, and at the end of the year passing with them the examinations.

It is the object of the Faculty to present a complete course of instruction in the theory and practice of Dentistry; and for this purpose a well-appointed laboratory and infirmary are provided, and such arrangements made as insure an ample supply of patients. Clinical instruction is given by the professors and other instructors; and, under the direction of demonstrators, patients are assigned to the students, insuring to all opportunity of operating at the chair, and becoming by actual practice familiar with all the operations demanded of the dentist.

The Infirmary remains open, and one of the clinical instructors and a demonstrator are in attendance, daily, throughout the academic year, offering to students excellent facilities for acquiring practical knowledge and manipulative dexterity.

Students have access to the hospitals of the city; to the dissecting-room and museum of the Medical School; and also, *without additional charge, to the instruction and examinations given in any other department of the University, with the exception of exercises carried on in the special laboratories.*

That the time of study shall count as a full term, students of every class must present themselves within the first week of the term and register their names with the Dean.

REQUIREMENTS FOR ADMISSION.

All candidates for admission, except those who have passed an examination for admission to Harvard College or any reputable college of Letters or the Lawrence Scientific School, must present a degree in Letters, Science, or Medicine, from a recognized college or scientific school, or pass an examination in the following subjects:

1. English.
2. Physics.
3. Either Latin or French.
4. Either German, Algebra, Plane Geometry, Botany or Chemistry.

1. English. The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number, set before him on the examination paper. In 1900 the topics will be drawn from the following works: Scott's Ivanhoe, George Eliot's Silas Marner, Lowell's Vision of Sir Launfal, DeQuincey's Flight of a Tartar Tribe.

The candidate is expected to read intelligently *all* the books prescribed. He should read them as he reads other books; he is expected, not to know them minutely, but to have freshly in mind their most important parts.

In every case the examiner will regard knowledge of the book as less important than ability to write English.

As additional evidence of preparation, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work.

2. Physics. (1) A competent knowledge of Physics such as may be obtained from Gage's Elements of Physics, or any other High School Physics, or (2) a course of experiments, not less than forty in number, performed at school by the student. These must be selected from a list issued by the University under the title, "A Descriptive List of Elementary Exercises in Physics,"* or must be approved by the Department of Physics of Harvard College as the equivalent of those contained in this list.

The note-book must bear the endorsement of the teacher certifying that the notes are a true record of the pupil's work.

3. Latin. The translation at sight of average passages from the first three books of Caesar's Commentaries on Gallic War, and the first two books of Virgil's Aeneid.

4. French and German. Translation at sight of easy prose.

5. Algebra, Plane Geometry, Botany and Chemistry.

* This list can be procured (price forty cents) of the branch of the Harvard Coöperative Society, 707 Boylston St., or will be sent postpaid on receipt of price by the Publication Agent of Harvard University, 2 University Hall, Cambridge, Mass.

The examination in Algebra will extend to Quadratic Equations; in Botany, will cover Gray's How Plants Grow; in Geometry, will include the elements of Plane Geometry; and in Chemistry, Theoretical and Descriptive (Inorganic) Chemistry.

Students who began their professional studies in other recognized Dental or Medical Schools may be admitted to advanced standing: but all persons who apply for admission to the advanced classes must furnish a satisfactory certificate of time spent in dental or medical studies, and must pass examinations in the branches already pursued by the class to which they seek admittance.

Graduates of recognized dental schools will be admitted without examination to the courses in Operative and Mechanical Dentistry, but attendance on such courses does not entitle a student to examination for the degree nor to a certificate of attendance.

The examinations for admission are conducted in writing. In judging the work of the candidate, the spelling, grammar, and construction are considered.

The examination for admission is held at the Dental School, North Grove Street, Boston, on the Tuesday before the last Wednesday in June and on the Monday preceding the last Wednesday in September, beginning at 9 A.M.

No person will be examined for admission at any other than the regularly appointed time.

The entrance and first-year examinations will be allowed to foreign students who have passed *equivalent* examinations abroad, upon presentation of proper certificates from the examining boards vouching for the facts.

All persons intending to take the entrance examination must send their names to the Dean for registry previous to the day on which the examination is to take place.

REGISTRATION.

The academic year 1900–1901 begins on Thursday, September 27, 1900. All students register at the School on North Grove Street, on that day at 9 A.M.

COURSE OF INSTRUCTION.

The following is the plan of study in the successive years of the School: —

First Year. — Anatomy-dissection, Physiology, Histology and Embryology; General Chemistry, Physiological Chemistry, and Bacteriology.

Second Year. — Oral Pathology, Operative Dentistry, Oral Surgery, Mechanical Dentistry, and Orthodontia; General and Dental Materia

Medica and Therapeutics; Oral Anatomy and Physiology; Crown and Bridge Work and Metallurgy; practical work daily in the mechanical laboratory and in the operative infirmary.

Third Year. — Operative Dentistry, Oral Surgery, Mechanical Dentistry, and Orthodontia, Neurology, Surgical Pathology and Surgery, Crown and Bridge Work and Metallurgy; Dental Jurisprudence; practical work in operative infirmary and mechanical laboratory.

INSTRUCTION FOR 1899-1900.

Anatomy.

October.

Lectures. *Daily.* Professor DWIGHT.

Demonstrations and study of bones and joints. *Three hours daily.*

November and December.

Lectures. *Twice a week.* Professor DWIGHT.

Demonstrations. *Four times a week to each section of the class.* Asst. Professor DEXTER.

Practical anatomy with recitations. *Three hours a day, five times a week.*

January.

Lectures and demonstrations. *Every Saturday.* Professor DWIGHT.

Lectures. *Daily.* Asst. Professor DEXTER.

Demonstrations. *Five times a week to eaeh section of the class.* Dr. BROOKS.

Demonstrations and study of the brain and organs of sense. *Three hours a day, five times a week.*

Practical anatomy with recitations. *Three hours a day, five times a week.*

Physiology.

Lectures. *Daily, February 8 to June 6.* Professors BOWDITCH and W. T. PORTER.

Laboratory exercises in Experimental Physiology. *Daily, February 8 to June 6.* Professor PORTER.

Conferences. *Daily, for half an hour, March 6 to June 6.*

Chemistry.

General Chemistry. *Three times a week, during October. Once a week during November and December. Five times a week in January.* Professor HILLS and Mr. SMITH.

Practical exercises in the laboratory. *Three times a week during November and December. Five times a week during January.*

Physiological Chemistry.

Lectures. *Daily, excepting Saturdays, during February, March, and April.* Professor Hills.

Laboratory exercises. *Daily, excepting Saturdays, during February, March, and April.* Professor Hills, Drs. Joslin, and F. W. White.

Histology and Embryology.

Lectures. *Six times a week, during October. Twice a week during November and December.* Professor Minot.

Laboratory exercises. *Five times a week, during October, November, and December.* Professor Minot and Drs. Schaper and Ames.

Bacteriology.

Eighteen lectures, in second half-year. Professor Ernst.

Practical laboratory work. *Eighteen hours for each student, during the second half-year.* Professor Ernst.

Operative Dentistry.

Lectures. *Once a week.* Professor Fillebrown and Dr. Potter.

Oral Surgery. Lectures and Clinics. Professor Fillebrown.

Clinical lectures. *Once a week, for ten weeks.* Dr. Clapp.

Practical work. *First year: six hours a week, for half-year; second and third years: fifteen hours a week, throughout the second and third years.*

Mechanical Dentistry and Orthodontia.

Lectures. *Once a week.* Professor Smith.

Practical work. *Eighteen hours a week, throughout the second and third year.*

Orthodontia Clinics. *Once a week throughout the third year.*

Surgery.

Lectures. *Once a week, for one month.* Professor Warren.

Operative Surgery.

Operations are performed before the students one day each week throughout the year in the Amphitheatres at the Massachusetts General Hospital and the Boston City Hospital.

Operative Surgery and Surgical Anatomy. *Exercises illustrated upon the cadaver twice a week in November and December.* Professor C. B. Porter.

The Surgical cases at the Eye and Ear Infirmary and at the Boston Dispensary are shown by the surgeons in charge.

Dental Pathology.

Lectures. *Once a week.* Professor BRACKETT.

Oral Anatomy and Physiology.

Lectures and demonstrations. *Once a week.* Asst. Professor STANTON.

Surgical Pathology.

Lectures. *Once a week, for ten weeks.* Dr. MONKS.

Materia Medica.

Lectures. *Once a week.* Professor E. C. BRIGGS.

Neurology.

Lectures. *Once a week, for four weeks.* Dr. TAYLOR.

Crown and Bridge Work and Metallurgy.

Lectures and demonstrations. *Once a week.* Dr. COOKE.

METHODS OF INSTRUCTION.

Anatomy. — Lectures, demonstrations, various practical exercises, including dissection under the direction of the Demonstrator; recitations.

Physiology. — Lectures, recitations, conferences, and practical demonstrations. A laboratory course is given in experimental physiology in which each student makes more than one hundred experiments.

Chemistry is taught mainly by practical work in the laboratory, each student having his own desk and apparatus. Descriptive Chemistry and Qualitative Analysis are taught throughout the year. Besides the laboratory work, there are lectures every week. The course in Physiological Chemistry extends through twelve weeks and consists of lectures, demonstrations, or recitations, and laboratory exercises.

Surgery. — Lectures and recitations in Oral Surgery illustrated by colored drawings and by recent and morbid specimens. All approved instruments and apparatus are exhibited and explained. Operations are performed on the living subject at the hospitals, and upon the dead body. Instruction is given in the use of anaesthetics.

Instruction in Clinical Surgery is given at the Massachusetts General Hospital and the City Hospital every week.

Histology. — Lectures and special laboratory exercises for practical instruction in General Histology, and upon the structure and development of the teeth and mouth.

Bacteriology. — Lectures and practical work in the laboratory.

Operative Dentistry. — The instruction in this department is both didactic and practical. The Professor and other instructors endeavor to demonstrate all known methods of performing operations upon the teeth and other tissues involved.

The treatment of decay, the materials used for filling teeth, the most approved instruments and appliances used in operating upon the teeth, are appropriately discussed. Clinics are held at the Infirmary, and every available means used to make the student practically acquainted with all the modern improvements of this important branch of dental science; but no student will be permitted to operate at the chair until he has by observation and practice on extracted teeth satisfied the Professor of his fitness.

Oral Anatomy and Physiology. — Lectures and recitations upon the minute anatomy of the teeth and their histological development, and the surgical pathology of the tissues in and about the mouth. Material is furnished for the examination of the tissues in a healthy and diseased condition, with instruction in its preparation.

Dental Pathology. — In the beginning of the course of lectures the general principles of Pathology, including Etiology, Nosology, Semeiology, Diagnosis, and Prognosis, are outlined. The various pathological conditions in their relations to one another and their modifications of instruction and function are taught. This prepares the way for the special pathology of the region with which the dentist has most to do. The diseases of the dental and contiguous tissues are considered in detail, with reference to their nature, causes, manifestations and terminations, and their relations with systemic conditions.

Surgical Pathology. — Lectures and recitations embracing the subjects of shock, inflammation, repair, suppuration, ulceration, mortification, embolism, pyaemia, erysipelas, and tetanus.

Materia Medica and Therapeutics. — Lectures, recitations, and demonstrations of crude drugs and their preparations. This is a complete course, as taught in the Medical School to medical students. Remedies are classified, however, to meet the special requirements of the dental practitioner, and the student is particularly instructed upon those remedies which, as a specialist, he will be called upon most to use.

Mechanical Dentistry and Orthodontia. — Lectures and practical work in the laboratory; the manner in which mineral teeth are constructed, the principles and method of carving and furnace-work, and all compounds used for artificial teeth; and the manner in which gold and silver plates are prepared and adapted to the mouth; the use of rubber and other articles as bases. It is the aim to teach not only the mere

mechanical processes of Dentistry, but that combination of art with mechanism which enables the practitioner to effect so much in restoring the symmetry of the face and usefulness of the teeth, where they have been lost or impaired by accident or disease.

Orthodontia is taught by lectures and by practical work in the Infirmary. Models of cases are shown, and students are made familiar with the principles underlying the irregularities and the various appliances for their correction.

Crown and Bridge Work and Metallurgy. — Lectures and specimen work in the laboratory followed by practical work in the Infirmary.

Neurology. — A course of four lectures on Neurology will include a brief review of the anatomy and physiology of the nervous system, the anatomy of the trifacial nerve being made the subject of special study.

The nervous disturbances liable to be set up by dental irritation, and, conversely, those likely to produce odontalgia, will be considered as fully as the limited nature of the course permits, special attention being paid to trifacial neuralgia.

Clinical Lectures on Operative Dentistry. — These exercises include operations on patients, demonstrations and exhibition of models, showing the individual methods of the lecturers with descriptions and explanations.

TEXT-BOOKS.

The following works are recommended as text-books, and for collateral reading and consultation: —

Anatomy.

Text-Books. — Gray. Morris. Quain. Cunningham. Gerrish. Dwight, *Frozen Sections of a Child.* Treves, *Applied Anatomy.* Dexter, *Anatomy of Peretoneum.*

Collateral Reading. — Testut, *Anatomie Humaine.* Tillaux, *Anatomie Topographique.* Holden, *Osteology.* Humphry, *Human Skeleton.* Morris, *On the Joints.*

Histology and Embryology.

Text-Books. — Stöhr, *Manual of Histology.* Piersol, *Histology.* Schaefer, *Essentials of Histology.*

Collateral Reading. — Quain, *Anatomy.* Lee, *Microtomest's Vademecum.* Kolleker's, *Gewebelehre.* Minot, *Human Embryology.* Marshall, *Vertebrate Embryology.*

Physiology.

Text-Books. — Foster, *Text-book of Physiology. American Text-book of Physiology.* Waller, *Human Physiology.*

Collateral Reading. — Hermann, *Lehrbuch der Physiologie.* Kerke, *Handbook of Physiology.* Fick, *Compendium der Physiologie.* Halliburton, *Text-book of Chemical Physiology and Pathology.* McGregor-Robertson, *Elements of Physiological Physics.* Landois, *Manual of Human Physiology.* Stirling, *Practical Physiology.* Gamgee, *Physiological Chemistry of the Animal Body.*

General Chemistry.

Text-Books. — Long, *Elements of General Chemistry.* Long, *Analytical Chemistry.* Hammarsten, *Text-Book of Physiological Chemistry.*

Collateral Reading. — Mitchell, *Dental Chemistry* Hall, *Chemistry and Metallurgy applied to Dentistry.*

Dental Chemistry.

Text-Book. — Mitchell, *Dental Chemistry.*

Surgery.

Text-Books. — *An American Text-Book of Surgery.* Warren, *Surgical Pathology.* Garretson, *Oral Surgery.*

Materia Medica and Therapeutics.

Text-Books. — Edes, *Materia Medica and Therapeutics.* Potter, *Materia Medica.* Bartholow, *Hypodermatic Medication.*

Dental Pathology.

Text-Books. — Blodgett, *Dental Pathology.* DeBary, *Lectures on Bacteria.* Miller, *Micro-organisms of the Human Mouth.*

Surgical Pathology.

Text-Book. — Billroth, *Surgical Pathology.*

Oral Anatomy and Physiology.

Text-Books. — Black, *Dental Anatomy.* Tomes, *Dental Surgery.* Thompson, *Manual of Comparative Dental Anatomy.* Broomwell, *Anatomy and Histology of the Mouth and Teeth.*

Orthodontia.

Text-Books. — Farrar, *Irregularities of the Teeth.* Talbot, *Irregularities.* Guilford, *Orthodontia.*

Operative Dentistry.

Text-Books. — Kirk, *Operative Dentistry.* Fillebrown, *Operative Dentistry.* Taft, *Operative Dentistry. American System of Dentistry.* Marshall's, *Oral Surgery;* Morton's, *Cataphoresis.*

Mechanical Dentistry.

Text-Books. — Essig, *American Text-Book of Prosthetic Dentistry.* Richardson, *Mechanical Dentistry.* Kingsley, *Oral Deformities.* Harris, *Principles and Practice.* Harris, *Dictionary of Dentistry.*

Crown and Bridge Work and Metallurgy.

Text-Books. — Evans, *Crown and Bridge Work. American System of Dentistry*, Essig.

Anaesthesia.

Text-Books. — Anstie, *Stimulants and Narcotics.* Turnbull, *Artificial Anaesthesia.*

CLINICAL ADVANTAGES.

The Dental School is established in Boston, in order to secure those advantages for Clinical Instruction which are found only in large cities.

The clinics of the Dental Hospital afford a sufficient number of patients to give every student abundant practice in all branches of Dentistry throughout the year.

Each student is assigned a chair, and is expected to improve his opportunity and operate three hours every day, five days in the week, giving each student during each year 480 hours of practice in Operative Dentistry.

In the mechanical department the student gives three hours a day for six days each week, giving 576 hours' practice each year.

Dental Statistics. — For the year 1898–99 :

Operative department : —

No. of patients treated	6,232
" " Operations	18,086
" " Fillings — Gold	3,531
" " " Amalgam	1,249
" " " Cement	1,774
" " " Gutta Percha	2,515

Other Surgical cases : —

Necrosis	4
Abscess	16
Antrum Disease	2
Staphylorraphy	2
Epulis	3
Uranoplasty	3
Hare Lip	2
Operation to shape nostril	1

Mechanical department: — Service to patient.

No. of sets of artificial teeth	389
" " " " " " repaired	89
" " splints for fractured jaws	81
" " " " cleft palate operations	2
" " obturators and appliances for cleft palates	4
" " artificial noses	2

Mechanical Laboratory: — Practice work.

Sets of artificial teeth	365
Splints for fractured jaws	22
Orthodontia appliances	31
Artificial noses	1

Orthodontia: —

No. of sets of teeth regulated	94
" " appliances	192

Crown and Bridge Work: — Service to patients.

No. of Crowns and Caps	91
" " pieces of Bridge Work	26
" " Porcelain Tips	1
" " Carved Teeth	2
" " Pieces of Bridge Work repaired	3

Crown and Bridge Work: — Practice Work.

No. of Crowns and Bridges	114
" " Porcelain Tips	8
" " Inlays	65
" " Carved teeth models	46

The Massachusetts General Hospital. — During the past year, 5,005 patients were treated in the wards, and 28,741 new patients in the out-patient departments. Patients are received from all parts of the United States and the Provinces, and are visited by the students, with the attending physicians and surgeons, on four days in the week.

The City Hospital. — During the past year, 8,382 cases were treated in its wards, and 22,712 in its various out-patient departments. The medical wards always contain many cases of acute diseases, and changes are taking place constantly. Clinical instruction is given by the physicians and surgeons twice a week.

In these two hospitals, the facilities for witnessing Operative Surgery are unsurpassed. Twice a week operations are performed in the presence of the class. The number of these operations is large, reaching nearly two thousand a year. The variety is great, embracing every surgical disease and injury, including the surgical operations on the eye and ear.

The Boston Dispensary. — Over forty-four thousand patients were treated at this public charity during the past year. A new building has lately been erected at a cost of $50,000, where students have ample and excellent opportunity for seeing practical work in the diagnosis and treatment of cases illustrating the various branches of Medicine and Surgery.

The Massachusetts Charitable Eye and Ear Infirmary. — 22,349 patients were treated at this institution during the past year. These cases present every variety of disease of the ear and eye, and supply a large number of operations.

The Marine Hospital at Chelsea receives from the shipping of the port a large number of patients, who furnish examples of the diseases of foreign countries and of distant parts of the United States. Many cases of venereal disease, in its various forms, are treated annually.

LIBRARIES AND MUSEUMS.

The College Library at Cambridge is open to students and also the Library of the Boston Medical Library Association which has a dental section containing a large and very complete collection of dental literature. It includes the libraries of the American Academy of Dental Science, and the Massachusetts Dental Society.

The Boston Public Library is open to students who are inhabitants of Boston. Students who are not inhabitants of Boston, who have filed bonds at the Treasurer's office, or deposited with the Treasurer the sum of fifty dollars, may also use this Library.

The Dental Museum is in charge of Dr. Waldo Elias Boardman, *Curator*. It contains over 3000 specimens, and offers unusual facilities for study of the teeth. The pathological anatomy of the teeth is shown by more than 1600 specimens, among which are over 200 dissected teeth showing formations of secondary dentine in the pulp cavity, and also many other rare specimens of great value. There are 600 other specimens of human and comparative anatomy, illustrating a wide range of knowledge.

Students in the School have access also to the Warren Anatomical Museum.

EXAMINATIONS.

The regular examinations, conducted in writing and orally, are held at the end of each year in June and in September in the following order, viz : —

First Year. — Anatomy, including dissection (2 hrs.), Physiology (3 hrs.), Chemistry (3 hrs.), Histology (1 hr.), Bacteriology (1 hr.). A certificate from the Demonstrator of Anatomy will be required of each student that he has satisfactorily performed the required dissections.

Second Year. — Dental Pathology (2 hrs.), Materia Medica and Therapeutics (2 hrs.), Oral Anatomy and Physiology (3 hrs.), Operative Dentistry (3 hrs.).

Third Year. — Operative Dentistry (2 hrs.), Surgical Pathology and Surgery (3 hrs.), Mechanical Dentistry (2 hrs.), Orthodontia (2 hrs.), Crown and Bridge Work (2 hrs.). These examinations will include actual operations performed during the course, and the preparation of specimens of mechanical dentistry.

Students shall not be entitled to enter the third-year class in practical Operative and Mechanical Dentistry, until they have shown reasonable proficiency in the work of the second year.

Applicants for advanced standing must pass all the examinations of the years which they desire to omit, or furnish proof that they have passed equivalent examinations. Examinations for advanced standing are held in June and September.

No student will be allowed to anticipate the examinations in the regular programme of his year, except by special permission of the Faculty.

Those who fail in any subject may present themselves in that subject again at the next regular examination. The regular examinations for the year 1899–1900 will begin June 1 and September 20, 1900. After two failures to pass in any subject a charge of three dollars will be made for each subsequent examination in that subject.

DIVISION OF STUDENTS.

Students are divided into three classes according to their lines of study and proficiency, and during their last year will receive largely increased opportunities of clinical instruction and of practice in actual operations on the natural teeth and mouth.

In order that the time of study may count as a full year, students of all classes must present themselves within the first week of the academic year and register their names with the Dean.

REQUIREMENTS FOR THE DEGREE.

The degree of Doctor of Dental Medicine (*Dentariae Medicinae Doctor*) may be conferred upon any candidate of adult age, and of good moral character, who has passed *all the required examinations*, and convinced the Professors and Instructors in Operative and Mechanical Dentistry of his ability to meet satisfactorily the requirements of his art. He must also give evidence of having studied Medicine or Dentistry in some recognized school three full years, the last continuous year of which must have been spent at this School. He must also deposit with the Dean, to be

placed in the Museum of the School, a specimen of mechanical dentistry, or of practical or pathological anatomy, which he has prepared during the course under the eye of the instructor.

The degree *cum laude* will be given to candidates who have pursued a complete three years' course and passed the examinations with distinguished excellence.

No student may advance with his class until he has passed a satisfactory examination in a majority of the studies already pursued by his class.

In estimating the majority of the studies of the first year Bacteriology and Histology are counted as one study.

The course is a graded one of three continuous years. *Graduates* from other reputable Dental Schools whose Course of Instruction consists of three years of nine months each will be permitted to enter the Senior class after passing the required examinations, or without examination, by special vote of the Faculty.

Candidates for the degree are obliged to apply for the same in writing, on blanks furnished at the Dean's office, on or before *May 30* of the year in which they propose to graduate.

INSTRUMENTS.

With the exception of extracting instruments, lathes, and vulcanizers, each student will be required to furnish his own instruments, and appliances for both laboratory and operating room.

FEES AND EXPENSES.

There are no fees for matriculation, for the diploma, or for the demonstrators. For the first year of a student's membership in the School, the fee is *two hundred dollars*, in two payments of *one hundred and twenty dollars* and *eighty dollars*, at the beginning of the several terms; for the second and third years, *one hundred and fifty dollars* each, in two payments of *one hundred dollars* and *fifty dollars*, at the beginning of the several terms; and for any subsequent year, *fifty dollars*, payable at the beginning of the year.

During the first year there are the following additional expenses: Two dollars for each of the three parts required for dissection; and five dollars per year for chemical material, in addition to the charge for breakage of glass apparatus. A deposit of fifteen dollars is required to cover these charges for chemical material and breakage. The balance of this deposit is returned at the end of the year. During the second and third year a deposit of ten dollars is required to cover any loss or breakage of appliances in the Infirmary and Mechanical Laboratory. The balance of this deposit is returned at the close of the year.

Graduates of recognized Dental Schools, admitted to the courses in Operative and Mechanical Dentistry for the whole or any portion of the academic year, pay a fee of *fifty dollars* for each course. By attending these courses the student does not become a candidate for a degree nor is he entitled to a certificate of attendance.

Of students *who do not pay in advance*, a bond for *three hundred dollars* executed by two sufficient bondsmen, one of whom must be a citizen of the United States, is required. A copy of such bond may be obtained by application to the Bursar* of the University. The bond of the "American Surety Company," if made in a form satisfactory to the Bursar of the University, will also be accepted. To students depositing these bonds, term-bills will be presented a week before the end of the first term, to be paid within two weeks; and also one week or more before Commencement, to be paid on or before the beginning of the next academic year. Such students will be held responsible for the payment of fees until they shall have notified the Dean of their intention to withdraw from the School, and have received their bond from the Bursar. *No degree can be conferred till all dues to the School are discharged.*

No officer or student of the University is accepted as a bondsman.

Whenever a student is obliged to withdraw from the School before the last four weeks of a half-year for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Faculty, it shall be recommended that he be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction, — this remission to date from the reception by the Dean of a written notice of the student's withdrawal from the School.

The student's expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. A list of boarding places at varying prices can be obtained at the rooms of the Young Men's Christian Association, corner of Berkeley and Boylston Streets, and the rooms of the Young Men's Christian Union, No. 48 Boylston Street.

Students, on joining the School, and at the beginning of each School year, must enter their names with the Dean of the Faculty. They are expected to register on the first day of the academic year, *the Thursday following the last Wednesday in September.*

For further information address Dr. Eugene H. Smith, *Dean*, No. 283 Dartmouth Street, Boston, Mass.

Dean's Office: No. 283 Dartmouth Street, Boston.

Office Hours of the Dean: 9 A.M. to 4 P.M.

* The Bursar's office is in Dane Hall, Harvard Square, Cambridge.

The following Tabular View illustrates the distribution of studies.

1899–1900, OCTOBER.

First Class — First Half-year.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy. L. or Dem. Prof. Dwight.
10	Anatomy. Sec. A. Histology. Sec. B.	Anatomy. Sec. A. Histology. Sec. B.	Anatomy. Sec. A. Histology. Sec. B.	Anatomy. Sec. A. Histology. Sec. B.	Anatomy. Sec. A. Histology. Sec. B.	
11						Histology, L. Prof. Minot. Room G.
12	Chemical L. or R. Prof. Hills. Lect.-room A.					Chemical, L. or R. Prof. Hills. Lect.-room A.
2	Histology, L. Prof. Minot. Room G.	Histology, L. Prof. Minot. Room G.	Histology, L. Prof. Minot. Room G.	Histology, L. Prof. Minot. Room G.	Histology, L. Prof. Minot. Room G.	
3	Anatomy. Sec. B. Histology. Sec. A.	Anatomy. Sec. B. Histology. Sec. A.	Anatomy. Sec. B. Histology. Sec. A.	Anatomy. Sec. B. Histology. Sec. A.	Anatomy. Sec. B. Histology. Sec. A.	
5				Chemical. L. or R. Prof. Hills. Lect.-room A.		

L. Lecture. R. Recitation. C. Conference. Dem. Demonstration.

The studies of the first year are pursued at the Medical School, corner Boylston and Exeter Streets.

The Laboratory work in Chemistry is pursued at the Dental School, North Grove Street.

The following Tabular View illustrates the distribution of studies.

1899–1900, NOVEMBER AND DECEMBER.

First Class — First Half-year.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Anatomy. Sec. A. Histology. Sec. B.	Anatomy. Sec. A. Histology (4 hours). Sec. B.	Anatomy, L. Prof. Dwight. Room C.	Anatomy. Sec. A. Histology (4 hours). Sec. B.	Anatomy. Sec. A. Histology (4 hours). Sec. B.	Anatomy, L. or Dem. Prof. Dwight. Room C.
10	Chemical Lab. No. Grove St. Mr. Smith.		Histology. Sec. B. Chemistry. No. Grove St. Sec. A. Mr. Smith.			
11						Histology, L. Prof. Minot. Room G.
12						Chemical, L. Prof. Hills. Lect.-room A.
2	Anatomy. Sec. B. Histology (4 hours). Sec. A.	Anatomy. Sec. B. Histology (4 hours). Sec. A.	Histology, L. Prof. Minot. Room G.	Anatomy. Sec. B. Histology. Sec. A.	Anatomy. Sec. B. Histology (4 hours). Sec. A.	
3			Histology. Sec. A. Chemistry. No. Grove St. Sec. B. Mr. Smith.	Chemical Lab. No. Grove St.		

L. Lecture. R. Recitation. C. Conference. Dem. Demonstration.

The studies of the first year are pursued at the Medical School, corner Boylston and Exeter Streets.

The Laboratory work in Chemistry is pursued at the Dental School, North Grove Street.

The following Tabular View illustrates the distribution of studies.

1899–1900, JANUARY.

First Class — First Half-year.

	Monday.	Tuesday	Wednesday.	Thursday.	Friday.	Saturday.
9	Anatomy, L. Asst.-Prof. Dexter. Lect.-room C.	Anatomy, L. Asst.-Prof. Dexter. Lect.-room C.	Anatomy, L. Asst.-Prof. Dexter. Lect.-room C.	Anatomy, L. Asst.-Prof. Dexter. Lect.-room C.	Anatomy, L. Asst.-Prof. Dexter. Lect.-room C.	Anatomy, L. Asst.-Prof. Dexter. Lect.-room C.
10	Anatomy. Dem.	Anatomy. Dem.	Anatomy. Dem.	Anatomy. Dem.	Anatomy. Dem.	Anatomy, L., etc. Prof. Dwight. Lect.-room C.
11						
12						
2	Chemical, L. Prof. Hills. Lect.-room A.	Chemical, L. Prof. Hills. Lect.-room A.	Chemical, L. Prof. Hills. Lect.-room A.	Chemical, L. Prof. Hills. Lect.-room A.	Chemical, L. Prof. Hills. Lect.-room A.	
3	Chemical Lab. No. Grove St. Mr. Smith.	Chemical Lab. No. Grove St. Mr. Smith.	Chemical Lab. No. Grove St. Mr. Smith.	Chemical Lab. No. Grove St. Mr. Smith.	Chemical Lab. No. Grove St. Mr. Smith.	

L. Lecture. R. Recitation. C. Conference. Dem. Demonstration.

The studies of the first year are pursued at the Medical School, corner Boylston and Exeter Streets.

The Laboratory work in Chemistry is pursued at the Dental School, North Grove Street.

The following Tabular View illustrates the distribution of studies.

First Class — Second Half-year.

	February.	March.	April.	May.
9 to 1	Physiology — Daily. Lectures, Demonstrations, and Laboratory. In sections.			
2	Physiological Chemistry. Daily, except Saturdays. Lectures, Monday and Wednesday, Room A. Tuesday and Thursday, Room E or A.	Physiological Chemistry. In sections. Dissection, Lectures, and Demonstrations.	Physiological Chemistry. Special courses.	Bacteriology. Lectures or Laboratory. Prof. Ernst. Monday, Wednesday, and Friday. Practical Dentistry, Dental Hospital, No. Grove Street. Dr. Upham. Tuesday and Thursday.
3 to 5.30	Laboratory, Room 1. Friday, 4 P.M., Room A. Lecture. With first year Medical Class.			

L. Lecture. R. Recitation. C. Conference. Dem. Demonstration.

The studies of the first year are pursued at the Medical School, corner Boylston and Exeter Streets.
The Laboratory work in Chemistry is pursued at the Dental School, North Grove Street.

The following Tabular View illustrates the distribution of studies.

Second Class.

DENTAL HOSPITAL, NORTH GROVE ST.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Crown and Bridge work and Metallurgy. Dr. Cooke. Clin. Lect. or Dem. Lect.-room B.	Mat. Medica and Thera., L. Prof. Briggs. Lect.-room B.		Op. Dent., L. Prof. Fillebrown. Lect.-room B.	Oral Anat. & Physiology, L. Asst. Prof. Stanton. Lect.-room B.	Mechan. Dentistry or Orthodontia. L. Prof. Smith. Lect.-rm. B.
10	Prac. Oper. Dentistry. Drs. White and Dickinson.	Prac. Oper. Dentistry. Drs. White and Dickinson.	Prac. Oper. Dentistry. Drs. White and Dickinson.	Dent. Path., L. Prof. Brackett. Lect.-room B.	Prac. Oper. Dentistry. Drs. White and Dickinson.	Orthodontia Clinic. Prof. Smith.
11				Prac. Oper. Dentistry. Drs. White and Dickinson.		Prac. Mech. Dentistry. Lab.
	Dr. Farrington. Asst. Dem.	Dr. Farrington. Asst. Dem.	Dr. Farrington. Asst. Dem.	Dr. Farrington. Asst. Dem.	Dr. Farrington. Asst. Dem.	Dr. Moriarty. Dem.
2	Pract. Mech. Dentistry. Dr. Forrest.	Pract. Mech. Dentistry. Dr. Forrest.	Pract. Mech. Dentistry. Dr. Forrest.	Pract. Mech. Dentistry. Dr. Meader.	Pract. Mech. Dentistry. Dr. Meader.	
	Dr. Chase. Asst. Dem.	Dr. Chase. Asst. Dem.	Dr. Chase. Asst. Dem.	Dr. Chase. Asst. Dem.	Dr. Chase. Asst. Dem.	
	Dr. Wyllie. Instructor. Extracting & Anesthesia.	Dr. Wyllie. Instructor. Extracting & Anesthesia.	Dr. Wyllie. Instructor. Extracting & Anesthesia.	Dr. Wyllie. Instructor. Extracting & Anesthesia.	Dr. Wyllie. Instructor. Extracting & Anesthesia.	
4					Recitation. Mat. Medica. Dr. Wyllie.	
$4\frac{3}{4}$			Op. Dent., L. Dr. Bradley. Lect.-room A.			

The following Tabular View illustrates the distribution of studies.

Third Class.

DENTAL HOSPITAL, NORTH GROVE ST.

	Monday.	Tuesday	Wednesday.	Thursday.	Friday.	Saturday.
9	Crown and Bridge work and Metallurgy. Clin. Lect. or Dem. Dr. Cooke. Lect.-room B.	Surg. Path. Dr. Monks. 10 lectures. com. Oct. 3. Lect.-rm. A. Op. Dent., L or Dental Jurisprudence, com. Jan. 9. Dr. Clapp. ‡Mechanical Dent. Clin. Lect. Private Lab. Dr. J. D. Dickinson. com. April 3.	§Op. Dent. Clin. Lect. Dr. Werner. *Dr. Stoddard. Mechan. Dentistry L. or Dem. com. Jan. 31.	Op. Dent., L. Prof. Fillebrown. Lect.-room B.	*Neurology, L. Dr. Taylor. 4 lectures com. Feb. 2. Lect.-room A. Prac. Mechan. Dentistry. Lab. Dr. Cross.	Mechan. Dentistry or Orthodontia. L. Prof. Smith. Lect.-rm. B.
10 to 1	Prac. Mechan. Dentistry. Lab. Dr. Eldred.	Prac. Mechan. Dentistry. Lab. Dr. Burnham.	Prac. Mechan. Dentistry. Lab. Dr. Haley.	Prac. Mechan. Dentistry. Lab. Dr. Bixby.		Orthodontia Clinic. Prof. Smith. Prac. Mech. Dentistry. Lab. Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.
	Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	
2	Pract. Op. Dentistry. Dr. Blaisdell. Dr. Perkins.	Pract. Op. Dentistry. Dr. Taft. Dr. Gray.	Pract. Op. Dentistry. Dr. Eddy. Dr. Paul.	Pract. Op. Dentistry. Dr. Harding. Dr. Holmes. †Surgery, L. Prof. Warren.	Pract. Op. Dentistry. Dr. Boardman. Dr. Taylor.	
	Dr. McMeekin. Dem.	Dr. McMeekin. Dem.	Dr. McMeekin. Dem.	Dr. McMeekin. Dem.	Dr. McMeekin. Dem.	
5	Dr. Wyllie. Instructor. Extracting & Anasthesia.	Dr. Wyllie. Instructor. Extracting & Anesthesia.	Dr. Wyllie. Instructor. Extracting & Anesthesia.	Dr. Wyllie. Instructor. Extracting & Anasthesia.	Dr. Wyllie. Instructor. Extracting & Anesthesia.	

* During second half-year.
† Medical School to be announced.
‡ In sections.
§ Commencing November 1.

LIST OF GRADUATES

OF

THE DENTAL SCHOOL OF HARVARD UNIVERSITY.

1869.

Thomas Fillebrown, M.D. (*Medical School of Maine*),	Boston.
Robert Tanner Freeman,	*1873.
Thomas Haley,	*1892.
Edward Page, M.D. (*Harvard*),	Charlestown.
Samuel Julius Shaw,	Boston.
Joseph Jenkins Vincent,	Brockton.

1870.

John Thomas Codman,	Boston.
William Francis Davis,	Adams.
George Franklin Grant,	Boston.
Samuel Franklin Ham,	Portsmouth, N. H.
Daniel Grout Harrington,	Boston.
Thomas Wilson Hogue,	Bournemouth, England.
Timothy Otis Loveland,	Boston.
William Henry Noyes,	*1895.
George Luther Parmele, M.D. (*L. I. College Hospital*),	Hartford, Conn.
William Henry Thornton,	*1897.
Frank Edward Ward,	*1894.
Charles Wilson,	Boston.

1871.

Charles Monroe Bailey,	Minneapolis, Minn.
George Hayward Baker,	Woonsocket, R. I.
Charles Edwin Hussey,	Biddeford, Me.
Albert Benton Jewell,	Newton.
Philip Benjamin Laskey,	Marblehead.
William Pitt Morgan,	Saginaw, Mich.

* Deceased.

1872.

George Henry Ames,	Providence, R. I.
Sidney Chapin Bancroft,	Leavenworth, Kan.
Charles Samuel Bartlett,	Boston.
James Dias Bell,	London, England.
Edwin Perley Bradbury,	Montecito, Cal.
James Adkins Clark, M.D. (*Dartmouth*),	*1875.
James William Curtis,	Brunswick, Me.
George William Geist,	Frankfürt am Main, Germany.
John Warner Keyes,	Boston.
George Edward Langdon Noyes,	Newburyport.
Frederic Miller Robinson,	Boston.
Samuel Saiza Silva,	Southbridge.
Benjamin Henry Torrens,	Fredericton, N. B.
Winslow Lewis Tucker, A.B., A.M. (*Harvard*),	Boston.
Cecil Porter Wilson,	Boston.

1873.

Charles Albert Brackett,	Newport, R. I.
Edward Augustus Dimmick,	Bridgetown, Barbadoes, W. I.
George Henry Knowles,	Central Falls, R. I.
William Herbert Rollins, M.D. (*Harvard*),	Boston.
Charles Herman Wolff,	Worms am Rhein, Germany.

1874.

Willis Porter Battles,	Providence, R. I.
Edward Dwight Carr,	Kansas City, Mo.
Edward Eastman Frost,	Worcester.
George Leonard Mason,	*1895.
Horatio Cook Meriam,	Salem.
Frederic Augustus Merrill,	Boston.
Eugene Hanes Smith,	Boston.
Franklin Baker Stewart,	*1877.

1875.

Forest Greenwood Eddy,	Providence, R. I.
John Willard Hazelton,	Peabody.
Joseph Traverse Morong,	*1880.
Wilbur Bates Parker,	Boston.
Eben Francis Whitman,	Boston.

1876.

Thomas Bradley,	New York, N. Y.
Oscar Berlin Brann,	Washington, D. C.
George Peters Caldwell, M.D. (*Harvard*)	Boston.
George Cunningham, B.L., B.SC., B.A., M.A. CANTAB., L.D.S. (*Eng.*),	Cambridge, England.
Elgar Morton Jewett,	Portsmouth, N. H.
George Otis Lawrence,	San Francisco, Cal.
Jesse Robbins,	Salem.
Charles Claude Rogers, L.D.S. (*Eng.*), M.R.C.S. (*Eng.*),	London, England.
Ezra Fletcher Taft, A.B. (*Amherst*),	Cambridge.
Julius George William Werner,	Boston.

1877.

Allston Gray Bouvé,	Boston.
Henry Francis Dunkel,	Gunnison, Col.
Edward Bigelow Hitchcock, M.D. (*Dartmouth*),	Newton.
Washburn Edward Page,	Boston.
Frank Perrin,	Boston.
Lucius Tracy Sheffield,	New York, N. Y.
Richard Theodore Stack, M.B. (*Dublin Univ.*), A.B., M.D., L.R.C.S. (*Edin.*), C.HM. (*Dublin Univ.*), L. and L.M., F.R.C.S.I., L.D.S., R.C.S. (*Eng.*),	Dublin, Ireland.
Frank Herbert Williams,	Boston.

1878.

Edward Cornelius Briggs, M.D. (*Harvard*),	Boston.
Joseph Mason Bright,	Bangor, Me.
Harry Fairfield Hamilton, B.S. (*Maine State Coll.*),	Boston.
Manning Kennard Rand,	Boston.
Daniel Frank Whitten,	*1891.
Herbert Chauncey Woodward,	Paris, France.

1879.

Frederic Eugene Banfield,	Boston.
Walter Bryant Currier,	Maynard, Mass.
Thomas Clarence Gillingham,	Sharon.
Edward Samuel Niles,	Boston.
John William Smith,	*1889.

1880.

Frederick Eugene Ayer,	San Francisco, Cal.
Albert James Colgan,	Boston.
Arthur Ernestine Lewis,	Plymouth.
John Scott Mason,	Boston.
Virgil Clarence Pond, B.P. (*Brown Univ.*),	Boston.

1881.

William Parker Cooke,	Boston.
George Alfred Dennett,	Boston.
James Alfred Reilly,	Boston.
Edmond Rosenthal,	Brussels, Belgium.
Otis Franklin Smith,	Boston.

1882.

Dwight Moses Clapp,	Boston.
George Eubank,	Birmingham, Ala.
Edward Earl Hopkins,	Boston.

1883.

Elliot Bowdoin Bacheller,	Lowell.
Edwin Carter Blaisdell,	Portsmouth, N. H.
Frederic William Hill,	Oxford, England.
Edward Albert Lowe,	Lowell.
Samuel Sterrett Macfarlane,	Frankfürt am Main, Germany.
Myron William Smith,	*1886.
Joseph Ellsworth Waitt,	Boston.
George Arthur Williams,	Liverpool, England.

1884.

Charles Lincoln Abbott,	Kansas City, Mo.
Frederic William Bevington,	Lawrence.
Henry Parsons Cooke,	Worcester.
Charles Percy Curtis,	Rome, Italy.
Arthur Crowell Gerry,	Lowell.
George Henry Gerry,	Providence, R. I.
Charles Franklin MacDonald,	Boston.
Edward Albert Stanley,	New Bedford.
Jere Edmund Stanton, M.D. (*Bellevue*),	Boston.
Alfred Horace Tester, L.D.S., R.C.S. (*Eng.*),	Tunbridge Wells, England.

1885.

Charles Henry Abbot,	Berlin, Germany.
Edward Merrill Currier, M.D. (*Heidelburg*), M.D. (*Boston Univ.*),	Boston.
Charles Eugene Estabrook,	So. Boston.
Thomas James Giblin,	So. Boston.
Henry Webster Gillett,	Newport, R. I.
Walter Harrison, L.D.S., R.C.S. (*Eng.*),	Brighton, England.
William Henry Potter, A.B. (*Harvard*),	Boston.
James Shepherd,	Boston.

1886.

Lyman Fisher Bigelow,	Boston.
Waldo Elias Boardman,	Boston.
William Thomas Borton,	St. Petersburg, Russia.
Frederick Bradley,	Newport, R. I.
Henry Michael Clifford,	Boston.
Isidor Fürst,	Hamburg, Germany.
Leonard Nutter Howe,	Boston.
Frederic Milton Mayo,	Boston.
Wilhelm Leopold Olander,	*1896.
Charles Hutchins Taft, A.B. (*Harvard*),	Boston.
Henry Lauriston Upham,	Boston.

1887.

Peter Crank, L.D.S., R.C.S. (*Eng.*),	Adelaide, So. Australia.
Carroll Ketcham Huntley,	Providence, R. I.
Leslie Maxwell, L.D.S., R.C.S.I.,	Tunbridge Wells, England.
Edwin Leslie Shattuck,	London, England.
Frank Ellsworth Sprague,	Nashua, N. H.
Henry James Stark,	*1889.
Edgar Fremont Stevens,	Medford.
Arthur Henry Stoddard,	Boston.
Charles Henry Veo,	Boston.
John Daniel Wilson,	Boston.
Harry Eugene Windsor,	Providence, R. I.
Thomas Weston Wood, A.B., A.M. (*Brown Univ.*),	Boston.
Harvey Warner Woodberry,	Duluth, Minn.
Charles Frederick Wright, L.D.S., R.C.S. (*Eng.*),	London, England.

1888.

George Pierce Geist,	Frankfürt am Main, Germany.
Frederick Payne Graves,	Saco, Me.
Ellis Proctor Holmes,	Stoughton.
Henry Allen Kelley,	Portland, Me.
Thomas George Read, L.D.S., R.C.S. (*Eng.*),	London, England.
Frederick Arnold Stevenson, L.D.S. (*Prov. Quebec*), D.D.S. (*Bishops College, Prov. of Quebec*),	Montreal, Canada.
Charles Bryant Titcomb.	San Francisco, Cal.

1889.

Fred. Anthony Arnold,	Newport, R. I.
Henry Jefcins Borton,	St. Petersburg, Russia.
Charles Poor Briggs, A.B., M.D. (*Harvard*),	Boston.
William Frederick Gay,	Boston.
Paul Grünewald,	Frankfürt am Main, Germany.
Frank Irving Hammond,	Providence, R. I.
Frederick Sylvanus Hopkins,	Boston.
Daniel Albion Jones, B.A., M.D. (*Yale*),	New Haven, Conn.
William Russell Jones,	Wakefield.
William Lombardino,	Berlin, Germany.
Patrick William Moriarty,	Boston.
William Curren O'Leary,	New York, N. Y.
Arthur Henry Osgood, A.B. (*Harvard*),	Boston.
Caleb Heath Shepard,	*1892.
Frederic Ervin Twitchell,	Willmar, Minn.
Eugene Jakob Wetzel,	Mülhausen, Alsace, Germany.
James Robert White,	No. Adams.

1890.

Sidney Roland Bartlett, S.B. (*Mass. Inst. of Tech.*),	Colorado Springs, Colo.
Harry Oliver Bixby,	No. Cambridge.
Benjamin Howard Codman,	Boston.
Edwin Hartley Dixon,	New York, N. Y.
Arthur Warren Eldred,	Worcester.
Charles Manning Keep, M.D. (*Harvard*),	Boston.
Charles Elmer Luce	Stuttgart, Germany.
Kotai Masuda,	Yokohama, Japan.
Arthur Judson Oldham,	Boston.
Hermann Paal,	Dresden, Germany.
Charles Ernest Perkins,	Brockton.
Oscar Pulvermacher,	Berlin, Germany
Edward Rolfe,	Lexington.
Elbridge Abbott Shorey,	Dover, N. H.
Frank Turner Taylor,	South Boston.

1891.

Paul Henri Jules Boitel,	Vevey, Switzerland.
Georges Antoine Brouillet,	Boston.
Alexander Humboldt Fisher,	Boston.
Adin Albert Goldsmith, D.D.S. (*Univ. of Penn.*),	London, England.
Amos Irving Hadley,	Boston.

George Meads Holden, Hackettstown, N. J.
Shimpei Nobutsune Isawa, Tokyo, Japan.
George Martin, D.D.S. (*Univ. of California*), Berlin, Germany.
Clarence Moore Noble, *1897.
Hugh Owen, Auckland, New Zealand.
Joseph Totten Paul, Boston.
George Barnum Perry, Chicago, Ill.
William Fuller Sharp, D.D.S. (*Univ. of California*), San Francisco, Cal.
Fred Homer Woodcock, *1895.

1892.

Edward Stanley Bryant, Palmer.
Allen Stanley Burnham, Gloucester.
Charles Edward Bugbee Chase, So. Framingham.
Willard Eben Curtice, Boston.
Kirk Addison Davenport, D.D.S. (*Univ. of Penn.*), London, England.
Ernest Frederick Gabell, Red Hill, Surrey, England.
Theodore Hallett, Boston.
Herbert Frederic Hill, London, England.
Albert Edward Hulme, Andover.
Richard Carl Moritz, London, England.
Harry Snow Parsons, M.D. (*Bowdoin*), Boston.
Henry Robinson Peach, Salem.
Henry Edward Rose, L.D.S., R.C.S.I. Birmingham, England.
Nathan Prindle Wyllie, Boston.

1893.

Charles Oscar Cummings, A.B. (*Dartmouth*), *1894.
Frank Roberts Dickerman, Taunton.
George William Field, Jr., L.D.S., R.C.S.I. Boston.
George Rufus Gray, D.D.S. (*Univ. of Penn.*), Worcester.
Joseph Geiger Grove, Jr. Waverly, Ohio.
Max Hanau, Nüremberg (Bavaria), Germany.
Arthur John Lamere, Fitchburg.
Richard Pearson, M.B., B.S. (*Durham Univ.*),
M.R.C.S., L.R.C.P., R.C.S. (*Eng.*), London, England.
Edward Melville Quinby, M.R.C.S., L.R.C.P. (*Eng.*), Liverpool, England.
Charles Hudson Quirk, M.D. (*Harvard*), Buenos Ayres, Argentine Rep.
Frederick King Richardson, New York, N. Y.
William Bertram Sansom, L.D.S., R.C.S. (*Eng.*), London, England.
John Joseph Smith, *1894.
Frank Merrett Wilkinson, Perth, West Australia.

1894.

Eugene Everett Arnold,	Warren, R. I.
Joseph Bergin Belliveau,	Boston.
Joseph Boylston,	Portsmouth, N. H.
Thomas Bernard Hayden,	Boston.
Jay Reuben Holton,	St. Louis, Mo.
Gustave Joseph Inderbitzen,	Bern, Switzerland.
Arthur Jackson,	Boston.
Frederick William Percival,	Peterborough, England.
Thomas Edward Quinn,	Boston.
Fred Gibson Robbins, M.D. (*Harvard*),	Boston.
Arthur Galusha Smith,	No. Peoria, Ill.
George Lund Taft, PH.B., A.B. (*Boston Univ.*),	Cambridge.
Louis Napoleon Veo,	Boston.
William Joseph Walton,	Dorchester.

1895.

Ernst Sixten Arvedson, L.D.S. (*Sweden*),	Stockholm, Sweden.
Edward Doane Barrows,	Berlin, Germany.
Robert Lander Bartlett,	Lynn, Mass.
Clarence Augustus Carr, A.B., A.M. (*Brown Univ.*),	Newport, R. I.
Walter Strout Coleman,	Portland, Me.
Dwight Ward Dickinson, B.S. (*Boston Univ.*),	Berlin, Germany.
Percy Edgelow, M.R.C.S. (*Eng.*), L.R.C.P. (*Ed.*),	London, England.
James Austin Furfey,	Boston.
Marquis D. Littig, D.D.S. (*Univ. of Penn.*), M.D. (*Tufts*),	Boston.
Frederick Everett Meader,	Boston.
Richard Dyer Milliken,	Saco, Me.
Robert Tucker Moffatt,	Boston.
Henry Clinton O'Brien,	Boston.
Patrick Henry O'Connor,	Seattle, Wash.
Francis Wheeler Rice,	*1897.
Leopold Scheuermann,	Berlin, Germany.
Arthur H. Woodcock,	Boston.

1896

Francis Hornes Barnard, Jr.,	Boston.
Edgar Casper Bienemann,	London, England.
Asher Harriman St. Clair Chase,	Everett.
Ernest Howard Chute,	Dedham.
Charles Winfield Crane,	Lynn.

Harold DeWitt Cross,	Nashua, N. H.
John Walter Emery,	West Medford.
Edwin Linwood Farrington,	Lowell.
Adelbert Fernald,	Boston.
Guy Webster Gilbert,	Andover.
Harry Sargent Gilman,	Boston.
Harry West Haley,	Boston.
Harvey Winchester Hardy,	Boston.
Harry Morrill Haynes,	Boston.
Robert John McMeekin,	Boston.
James Francis Martin,	Springfield.
Edward Wakefield Matthews,	Yarmouth.
Charles Everett Monroe,	Atlantic.
Thomas Kennedy Ross,	Fitchburg.
Philipp Johann Alexander Stadelmann,	Frankfürt amMain, Germany.
Walter Irving Sweet,	Providence, R. I.
Charles Frederick York, Jr.,	Rockport.

1897.

Frederick Wilde Allen,	Braintree.
Frank Pliny Barnard,	Oxford.
Roy, Keney Belden,	Oakland, Cal.
Harry Ernest Belyea,	Brookline.
Charles William Berry, B.S. (*Dartmouth Coll.*),	Somerville.
Ralph Vincent Blake, PH.G. (*Mass. Coll. of Pharmacy*),	Boston.
Harold Edgeworth Davis,	San Francisco, Cal.
Robert Irving Davis,	Chelsea.
Walter Sheldon Davis,	Worcester.
John Dana Dickinson,	Boston.
Harold Watson Estey,	Boston.
Walter Joseph Faunce,	Boston.
George Lincoln Forest.	Gardner.
Leo Green, A.B. (*Coll. of City of New York*),	New York, N. Y.
George True Greenwood,	Fitchburg.
Francis Herbert Harding,	Winchester.
Edward Everett Henry,	Wellesley Hills.
Arland, Martin Kenney,	Dorchester.
Charles Ansel Lakin,	Worcester.
William Lunan, Jr.,	Southbridge.
Raimond Edgar McDonnough,	Boston.
Thomas Richard McMahon,	Charlestown (Boston).
Joseph Thomas Mooney,	Boston.
Charles Erwin Parkhurst, A.B. (*Boston Univ.*),	Somerville.

Harry Carlton Spencer,	Newton.
Joseph Herman Stromier, L.D.S. (*Coll. of Physicians and Surgeons, Glasgow, Scot.*), D.D.S. (*Univ. of Mich.*	Glasgow, Scotland.
David Pickard Thomas,	Boston.
Clarence Bartlett Vaughan,	Boston.
Frank Hosea Veo,	Boston.
George Alfred Warren,	Newton Highlands.
Walter Harris White,	Boston.
Herbert Clarence Woodman,	Boston.

1898.

Harry Roscoe Allen,	S. Willington, Conn.
Ernest Harold Christopher Bailey, R.D.S. (*Melbourne D. Coll. Oral Hospital*),	Ballarat, Australia.
Francis William Bailey, R.D.S. (*Melbourne D. Coll. Oral Hospital*),	Ballarat, Australia.
Lawrence Wills Baker,	Boston.
Charles Boardman Burnham,	Beverly.
John Alexander Counter,	Kingston, Can.
Frank Crowther,	Roxbury.
Joseph Daley,	Boston.
Eliot Taylor Dickinson, B.S. (*Boston Univ.*),	Amherst.
Giles Dowling,	Allston.
Paul Hill Duckworth,	Lowell.
Stewart Cheselton Fisher,	Denison, Tex.
Harry Linwood Grant, A.B. (*Brown Univ.*),	Boston.
Timothy Hanrahan,	Boston.
George Herbert Harding, L.D.S., R.C.S. (*Eng.*),	Huyton, Liverpool, Eng.
Ernest Jewett Hart,	Chelsea.
J. Churchill Hindes,	Vergennes, Vt.
Horace Leonard Howe,	E. Pepperell.
Evans Almon Leonard,	Glover, Vt.
William Saul Louisson, D.D.S. (*Univ. of Penn.*),	San Francisco, Cal.
Frank Martin Lynde, A.B. (*Tufts Coll.*),	Williamstown, Vt.
Michael Francis McDermott, M.D., C.M. (*Queens Univ., Kingston*),	Kingston, Can.
John Norman Macdonald, L.D.S.,	Dunedin, N. Z.
Elmer Joseph Marston,	Farmington, Me.
Louis Frederic Mongeon,	Blackstone.
Charles Edward Murphy,	Haverhill.
William Morse Parker,	River Hebert, N. S.

James Avard Richan,	E. Boston.
Frederick Augustus Leopold Schuckmann,	Herford, Westphalia, Germ.
Frank Bowker Siears,	Boston.
Murdock Campbell Smith, M.D. 1888, D.D.S. 1887 (*Howard Univ.*),	Lynn.
William Daniel Squarebrigs,	Bay Fortune, P. E. I.
Wilfred Harlow Starratt, A.B. (*Acadia Univ.*),	Forest Hills.
John Talbot Timlin,	Melrose.
Albert Everett Tuck,	Gloucester.
Ernest Blake Williams,	Malden.
Oliver Perry Wolff,	No. Weymouth.

1899.

Percy Lewis Barker,	Portland, Me.
Harold Nickerson Boyle,	Lynnfield Center.
Burt Myron Bristol,	Boston.
Ernest Earl Carle,	Malden.
John Sibley Coxeter,	Newtonville.
James Bernard Crofwell,	Boston.
Joseph Walter Davis,	Worcester.
Franklin Everett Dawes,	W. Hingham.
John Matthew Donovan,	Dorchester.
Guy Jerome Elwell,	Gloucester.
Thomas Dorsey Esgate,	Cambridge.
William Edward Fallon,	Boston.
George Emil Julius Federlin,	Boston.
Fritz Heinrich Fincke, M.D. (*Univ. of Md.*),	*1899.
George Osbourne Gaymond,	Dedham.
Everett Kendall Hallet,	Boston.
Oscar John Heinrich,	Rockford, Ill.
Elbridge Decosmo King,	Boston.
Karl Sumner Kyes,	Peterboro, N. H.
Arthur Allen Libby,	Boston
Thomas Francis McHale,	Providence, R. I.
Alfred Cooper Nathan, D.D.S. (*Phila. Dent. Coll.*),	Sydney, Australia.
Norman Beverly Nesbett,	Acushnet.
Charles Warren Patch,	Gloucester.
James Henry Pemberton,	Fall River.
William Eben Phillips,	Melrose.
James Edward Power,	Providence, R. I.
Herbert Arthur Reed,	Boston.
Oscar Per Herman Reuterswärd,	Boston.

George Danforth Richmond,	W. Medford.
Charles Bradford Robinson,	Boston.
Willard Mariner Rowe,	Boston.
Carl Axel Robert Samsioe,	Stockholm, Sweden
Edwin Silas Thompson,	Malden.
Evan Parker Wentworth,	Boston.
Edward Patrick White,	Cambridge.

EXAMINATION PAPERS.

(Annual Examinations, 1899.)

First Year's Studies.

ANATOMY. — Professor DEXTER.

[Answer the questions concisely.]

1. Describe the lower end of the humerus.
2. What is meant by the symphysis, the angle, the spine, and the crest of the pubes?
3. With what bones does the astragalus articulate?
4. What are the differences in the spines of a typical cervical, thoracic and lumbar vertebra?
5. Describe the sterno-clavicular joint.
6. Describe the openings of the stomach.
7. From what are the great omentum and the lesser omentum developed?
8. Give the course and relations of the common carotid artery.
9. Give the origin, course, relations, and distribution of the phrenic nerve.
10. Describe the openings of the diaphragm and state what goes through them.

PHYSIOLOGY. — Professor BOWDITCH.

[Number the answers to the questions without copying the questions themselves. Do not number the pages of the book. Answer the questions in order, writing on each page in succession.]

1. Define potential energy, and illustrate by physiological examples, showing the difference between nitrogenous and non-nitrogenous food.
2. What is the value of gelatine as food?
3. Why is it undesirable, even if possible, to live entirely on a meat diet?
4. Describe the movements of the stomach in digestion.
5. Describe the pulse wave, its cause and propagation.
6. What nerves connect the central nervous system with the heart and how do they influence its action?
7. What is the effect of a permanent biliary fistula?
8. What is rigor mortis and how is it related to muscular contractility?

9. Why does moisture in the air make both hot and cold weather more disagreeable?

10. What is the influence of nerves on gland cells?

11. How is the feeling of the presence of an amputated limb to be explained?

12. What is the function of the Eustachian tube?

13. Describe a plethysmographic experiment.

14. How does the heart-muscle differ from ordinary striped muscle as to the effect of changes in the intensity of the stimulus applied to it?

GENERAL CHEMISTRY. — Professor W. B. Hills.

1. Explain clearly the meaning of the terms atom, molecule, atomic weight, and molecular weight.

2. Define allotropism. Give examples.

3. Illustrate by means of an equation the change which takes place when an acid and a base are brought together.

4. How much zinc must be employed to obtain 50 grams of hydrogen ($Zn + H_2SO_4 = ZnSO_4 + H_2$)?

5. Ozone. Occurrence in nature? Its artificial formation? Properties?

6. Sources of carbon dioxide? What is the amount of carbon dioxide in the atmosphere normally?

7. What are alloys? Amalgams?

8. Action of acids upon platinum? Name substances which should not be heated in platinum dishes.

9. Properties of gold? Uses? What is the effect on gold of alloying with it: (*a*) copper; (*b*) silver?

10. Explain the classification of organic compounds in homologous series. Why, in such a series, is the common difference always CH_2, or some multiple thereof?

11. Ether. Preparation, properties, and uses?

12. What are fats chemically? What conditions favor their emulsification? $Zn = 65$.

BACTERIOLOGY. — Professor Ernst.

1. What are the different classes of bacteria? Describe them.

2. How would you go to work to isolate a specific form of bacterium, and what points must be noted in the study?

3. What bacteria are especially connected with pneumonia, and what are their chief characteristics?

HISTOLOGY. — Professor C. S. Minot.

[Each student is given three sections numbered to correspond with the questions below. He is expected to make simple drawings only, but sufficient to show that he has correctly identified the parts. Any student who draws tissues or structures, not shown in his preparation, will be considered to have failed in all his answers.]

The sections were: 1. Small intestine of dog. 2. Cross section of Nerv. ischiad. of dog. 3. Tooth germ of pig embryo.

1. Draw the section with low power. Name all the parts. In what plane is the section made?
2. Identify and draw all the tissues distinguishable in the section. Define tissue.
3. What is the section? Draw all the dental tissues occurring in it.

Second Year's Studies.

DENTAL PATHOLOGY. — Professor Brackett.

1. What do you understand by a disease germ?
2. In what ways may disease germs be conveyed from one person to another?
3. In a case of ill-defined pain somewhere about the teeth how will you investigate to find the cause?
4. What precautions should be observed in using arseoious acid to destroy dental pulps?
5. What may cause extensive bleeding difficult to control?
6. The etiology of pathological conditions in the antrum.
7. What are the most frequently found locations of caries in the deciduous teeth?
8. The part of micro-organisms in dental caries.
9. Oral conditions permitting the conveyance of syphilis from patient to dentist.
10. Differences between caries of bone and necrosis of bone.
11. What may be causes of recession of the gums?
12. The systemic etiology of neuralgia.
13. What pathological conditions may cause loss of permanent teeth?
14. In what locations may cavities of decay not having great depth reach the pulp?
15. Given a fully developed inflammation. Describe its termination by suppuration.

OPERATIVE DENTISTRY. — Dr. Potter.

1. In what operations can amalgam be used to advantage as a filling material?
2. Give the formula of an approved amalgam, and explain why the metals are used and their proportions.

3. Describe the filling of a simple crown cavity in a molar with tin foil.
4. What considerations would lead you to cap a living pulp, and what considerations would lead you to devitalize and remove one.
5. Describe three reliable methods of filling a root canal.
6. How would you treat approximal cavities in the deciduous molars?
7. In the cleansing of the teeth what should be done by the patient, and what by the dentist?
8. Why should dental instruments be cleansed and sterilized, and in what ways can it be accomplished?
9. How would you lessen the sensitiveness of the dentine in the mesial cavity of a left superior central by the use of cataphoresis?
10. Describe an electrical dental engine, and state the principle on which the controller is made.

MATERIA MEDICA AND THERAPEUTICS. — Professor Briggs.

1 The advantages in the use of chloroform rather than ether in general anaesthesia.
2. Codeia.
3. Astringents — when and for what purpose are they used?
4. Asepsis. Define.
5. Trional. Describe.
6. Describe one analgesic.
7. Trinitrin. Describe.
8. Describe one local anaesthetic.
9. Treatment of pyorrhoea alveolaris.
10. Treatment of heart failure.

ORAL ANATOMY AND PHYSIOLOGY. — Asst. Professor Stanton.

1. Describe Dentine, Enamel, and Cementum.
2. Give a brief description of the development of the Superior Maxillary Bones.
3. Describe the development of the Three Primary Germinal Layers.
4. What does a Dental Formula show? Give the formulae for the Temporary, Permanent, and Typical sets.
5. Give a minute description of an Odontoblast.
6. Describe Plici, Vaseo, and Osteo Dentine.
7. How is the Enamel Organ formed?
8. Describe the Antrum. Give its functions.
9. To what extend have the teeth developed at birth?
10. What is Meckels cartilage? What is its formation and what becomes of it?

Third Year's Studies.

CROWN AND BRIDGE WORK AND METALLURGY.

Dr. W. P. Cooke.

1. Describe a crown held by: *a*) screw-post.
   b) cement.
2. Describe a method of making an all metal molar crown; giving three ways of making the grinding surface.
3. Describe your method of making an open faced cuspid crown.
4. How crown a superior incisor, using band-cap, and a wood pivot porcelain crown?
5. How crown a superior lateral incisor, the root being split?
6. State the difficulties you have had in your practical cases in crown and bridge work.
7. How crown a superior cuspid, patient 55 years of age, pulp alive?
8. How repair a Richmond, porcelain faced, superior incisor, the porcelain being broken, the bite being close, the root having a post in it?
9. Discuss the question of crowns and bridges for teeth loosened by pyorrhea alveolaris; of force as applied to crowns and bridges; of the sensitiveness of teeth upon being ground for the insertion of a crown or bridge.
10. What is the use of a flux in soldering? Give the properties and method of extraction of several metals used in crown and bridge work.

MECHANICAL DENTISTRY. — Professor Smith.

1. How adjust clasps to elongated molars and bicuspid teeth of elderly patients?
2. *a*) What is the difference between acquired and congenital cleft palate?
   b) Mechanical treatment?
3. Describe the methods of using Plaster of Paris for the taking of impressions.
4. Treatment of fractures of the inferior maxillary.
5. *a*) What is the vulcanizer pressure in pounds when the thermometer registers 320 degrees?
   b) In raising the thermometer 8 degrees, what is the increase of pressure in pounds?
6. *a*) What are cast metal dentures?
   b) Where indicated?
7. Indications for the use of metal plates.
8. Describe Dr. Jenkins method of making porcelain inlays.
9. What are the advantages and disadvantages of continuous gum work, and under what conditions would you recommend it?
10. Describe the process of making bodies and enamels and what is necessary to bear in mind in regard to proportions between the two?

OPERATIVE DENTISTRY AND ORAL SURGERY.

Professor Fillebrown.

1. How should force be applied to extract teeth?
2. What conditions demand the extraction of teeth not affected by abscess?
3. What conditions demand the extraction of an abscessed tooth?
4. Describe methods of opening the antrum, and treatment of same.
5. Describe treatment for Rigg's disease and prognosis.
6. Describe progress of Necrosis in inferior maxilla, and treatment.
7. Describe operation for exsection of inferior dental nerve.
8. Describe operations for Epulis and prognosis.
9. Describe operation for single hare-lip. Make drawing showing incision to preserve red border.
10. (*a*) Describe operation for cleft palate. Make drawing of same.
    (*b*) Give prognosis.

ORTHODONTIA. — Professor Smith.

1. What are the causes of a small jaw with large teeth?
2. What produces hypertrophy of the jaw bones and what influence has it on irregularities of the teeth?
3. Etiology of the V and saddle shaped arch.
4. In moving the teeth, how avoid pathological changes?
5. Under what conditions in regulating would you take advantage of the flexibility of the alveola plate?
6. Describe appliances for elongating a tooth.
7. Describe appliances for moving outward instanding upper molars.
8. How treat a case of narrow arch and projecting incisors?
9. What dangers attend the rapid widening of the upper arch? How avoided?
10. How treat a case of Prognathism?

SURGICAL PATHOLOGY. — Dr. Monks.

1. What are the symptoms of acute inflammation, and how are these symptoms accounted for?
2. Describe the pathological steps in the formation of an acute abscess in the soft parts.
3. Describe the process known as "separation of the sequestrum" in cases of necrosis.
4. Mention some of the causes of ulceration, and describe how these causes operate.
5. The pathology, symptoms, and signs of caries.
6. In what respects do septicaemia and pyaemia resemble one another, and in what respects do they differ?

SURGERY. — Professor WARREN.

7. What is the cause of Hare-lip?
8. What is epulis? Give the treatment.
9. How would you distinguish a dental ulcer from cancer of the tongue?
10. The cause and treatment of closure of the jaws.

OFFICIAL REGISTER OF HARVARD UNIVERSITY

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The Annual Reports of the President and of the Treasurer.

The Annual University Catalogue.

The Annual Catalogues of the College and the several Professional Schools of the University; the Announcements of the several Departments; etc., etc.